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	Application No.	Applicant(s)		
AL 41 - LAN - LAN	09/683,002	BASTIAENS ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Rip A. Lee	1713		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. <b>THIS</b>	
1. $\boxtimes$ This communication is responsive to <u>September 16, 2005</u> .				
2. A The allowed claim(s) is/are 1, 2, 5-13, 20, 21, 23-30, and 3	<u>13</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority ur  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have	e been received.			
2. Certified copies of the priority documents have been received in Application No				
<ol> <li>Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ol>				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application.  itted. Note the attached EXAMINER	S AMENDMENT or N		
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<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") mus</li> <li>(a)          including changes required by the Notice of Draftspers</li> </ol>		048) attached		
1) hereto or 2) to Paper No./Mail Date	<del>-</del> '	940) attached		
(b) ☐ including changes required by the attached Examiner's		ffice action of		
Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).				
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atant Application (DT)	O 152\	
Notice of References Cited (P10-692)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• • • • • • • • • • • • • • • • • • • •	J-102)	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	e		
Paper No./Mail Date  4.   Examiner's Comment Regarding Requirement for Deposit			www.noo	
of Biological Material		8. ⊠ Examiner's Statement of Reasons for Allowance     9. □ Other		
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Application/Control Number: 09/683,002 Page 2

Art Unit: 1713

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Patricia S. DeSimone on November 17, 2005.

Claim 30, line 2 replace "comprising" with "consisting essentially of"

Application/Control Number: 09/683,002

Art Unit: 1713

## Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: Claims 1, 2, 5-13, 20, 21, 23-30, and 33 are allowed over the closest references cited below.

The present invention is drawn to compositions consisting essentially of: (i) about 20 to about 60 wt % of a PPE copolymer comprising about 75 to about 90 wt % of 2,6-dimethyl-1,4-phenylene units and about 10 to about 25 wt % of 2,3,6-trimethyl-1,4-phenylene units, (ii) about 30 to about 65 wt % of a polyamide, (iii) about 1 to about 30 wt % of an impact modifier selected from the group consisting of SE/BS copolymer, SE/P copolymer, and a combination of SE/BS and SE/P copolymers, and (iv) about 0.025 to about 40 wt % of electrically conductive filler.

Other aspects of the invention may be gleaned from the remaining claims (see application).

Dharmarajan *et al.* (U.S. 6,221,283) discloses a composition comprising 38.6 wt % of PPE, 32.4-33.2 wt % of nylon 6,6, 6.9 wt % of SE/BS, 3.3 wt % of SE/P, 6.5-8.5 wt % of electroconductive filler, 0.3-0.7 wt % of compatiblizer and minor amounts of stabilizer. The PPE polymer is a homopolymer of 2,6-dimethyl-1,4-phenylene units. The reference does not disclose use of a PPE copolymer having the exact composition delineated in the instant claims.

van der Meer et al. (U.S. 4,857,575) discloses a composition consisting essentially of 44 pw of PPE, 41 pw of PA, 15 pw of SE/P copolymer, and minor amounts of stabilizer. The reference contemplates use of a blend of 2,6-dimethyl-1,4-phenylene and 2,3,6-trimethyl-1,4-phenylene monomers for making the PPE polymer, but the exact amounts are not disclosed. Moreover, the reference does not teach use of electroconductive filler.

Lee (U.S. 5,324,782 and U.S. 5,248,728) teaches compositions consisting essentially of PPE, PA, SE/P or SE/BS impact modifier, and compatibilizer. The references contemplate use of a blend of 2,6-dimethyl-1,4-phenylene and 2,3,6-trimethyl-1,4-phenylene monomers for making the PPE polymer, but the exact amounts are not disclosed. Also, the references do not teach use of electroconductive filler.

Application/Control Number: 09/683,002

Art Unit: 1713

Silvi et al. (U.S. 6,352,654) teaches compositions similar to that of the instant claims. Use of a blend of 2,6-dimethyl-1,4-phenylene and 2,3,6-trimethyl-1,4-phenylene monomers for the PPE polymer is contemplated, but the exact amounts are not disclosed. The reference also discloses generically "styrene-diene block copolymers" as impact modifier, however, the identity of such material is not disclosed. It would not have been obvious to one of ordinary skill in the art to arrive at the claimed impact modifiers based on the teachings of the reference alone.

Koevoets et al. (U.S. 6,469,093) teaches a composition comprising 10-50 wt % of PPE, 35-65 wt % of polyamide, 5-40 wt % of talc, up to 20 wt % of impact modifier, 0.4-3.0 wt % of electroconductive filler, 0.3-0.7 wt % of compatiblizer and minor amounts of stabilizer. Use of SE/BS and SE/P copolymers as impact modifier is contemplated. The reference does not disclose use of a PPE copolymer having the exact composition delineated in the instant claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Additional Prior Art

The accompanying PTO-892 contains prior art made of record but not relied upon and which is considered pertinent to the Applicant's disclosure. The following references have been cited to show the state of the art with respect to PPE compositions containing SE/BS and SE/P impact modifiers.

Application/Control Number: 09/683,002

Art Unit: 1713

Any inquiry concerning this communication or earlier communications from the

Page 5

examiner should be directed to Rip A. Lee whose telephone number is (571)272-1104. The

examiner can be reached on Monday through Friday from 9:00 AM - 5:00 PM. If attempts to

reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu, can be

reached at (571)272-1114. The fax phone number for the organization where this application or

proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on the access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free).

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November 17, 2005

DAVID W. WU
PERVISORY PATENT EXAMINER

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